Welcome to Kindergarten

Entering Kindergarten is an exciting time for children. Parents and teachers work together to make the transition from home to school as smooth as possible.

Learning in Kindergarten

The curriculum, or *Kindergarten Program Statement*, is developed by Alberta Learning in consultation with early childhood educators. It describes what young children need to learn to prepare for entry into Grade 1, and provides a foundation for later grades. Children accomplish these learnings not only in the Kindergarten program, but also in their homes and communities.

Teachers use the curriculum to plan learning activities that meet the Kindergarten children's needs and abilities, and to assess their progress. The Kindergarten area is a busy and ever-changing place, with a variety of learning centres.

Supports for learning includes special needs programming and early literacy assistance.

Information for Parents

Parents can access information about the Kindergarten program in a variety of ways:

- your child's teacher or school
- Curriculum Summary
- Curriculum Handbook
- the Kindergarten page on the Alberta Learning Web site.

How Can I Help My Child?

- Be involved in the Kindergarten experience as much as you can.
- Keep in contact with your child's teacher so you are both informed about your child's progress and development.
- Talk with your child about their experiences in Kindergarten.
- Encourage your child through at-home activities, such as bedtime reading, listening to music, making decisions by offering choices, practising motor skills such as throwing and catching, drawing, cutting and doing puzzles.

Languages Other than English

- Blackfoot
- Cree
- French
- Spanish
- Ukrainian
- Other

These languages may be available at your child's school. For more information, contact the local school board.

Where Can I Get More Information?

- The Alberta Learning Web site
  http://www.learning.gov.ab.ca
- Aboriginal Services Branch
  Telephone: 780–415–9300
  Fax: 780–415–9306
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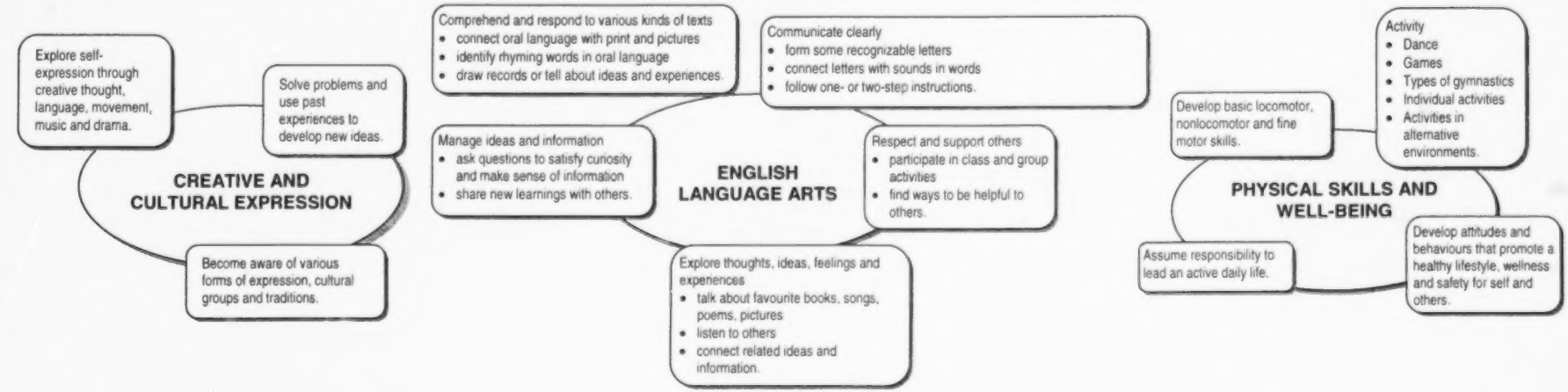
CURRICULUM SUMMARY

Kindergarten

2003–2004

Alberta
LEARNING

KINDERGARTEN AT-A-GLANCE


Explore self-expression through creative thought, language, movement, music and drama.
Solve problems and use past experiences to develop new ideas.
CREATIVE AND CULTURAL EXPRESSION
Become aware of various forms of expression, cultural groups and traditions.
Comprehend and respond to various kinds of texts
connect oral language with print and pictures
identify rhyming words in oral language
draw records or tell about ideas and experiences.
Communicate clearly
form some recognizable letters
connect letters with sounds in words
follow one- or two-step instructions.
Manage ideas and information
ask questions to satisfy curiosity and make sense of information
share new learnings with others.
ENGLISH LANGUAGE ARTS
Respect and support others
participate in class and group activities
find ways to be helpful to others.
Explore thoughts, ideas, feelings and experiences
talk about favourite books, songs, poems, pictures
listen to others
connect related ideas and information.
Activity
Dance
Games
Types of gymnastics
Individual activities
Activities in alternative environments.
Develop basic locomotor, nonlocomotor and fine motor skills.
PHYSICAL SKILLS AND WELL-BEING
Assume responsibility to lead an active daily life.
Develop attitudes and behaviours that promote a healthy lifestyle, wellness and safety for self and others.
Show positive attitudes and behaviours toward learning.
Contribute to group activities.
Develop positive relationships with others.
PERSONAL AND SOCIAL RESPONSIBILITY
Accept and practise responsibility.
Express feelings in socially acceptable ways.
Demonstrate awareness of positive relationships with family and friends.
Demonstrate and practise independence.
Number Concepts and Operations
describe, orally, and compare quantities from 0 to 10
show awareness of addition and subtraction.
Shape and Space
show awareness of measurement use
explore the properties of simple shapes and real-world objects
sort, classify and build real-world objects.
MATHEMATICS
Statistics and Probability
collect and organize, with assistance, data based on first-hand information
compare data, using more, less, the same.
Patterns and Relations
identify and create patterns from daily experiences.
Become aware of materials in the environment and how they are used.
Recognize similarities and differences between self and others.
COMMUNITY AND ENVIRONMENTAL AWARENESS
Show curiosity and willingness to learn about the environment and community.
Explore familiar places and things in the environment and community.

INFORMATION AND COMMUNICATION TECHNOLOGY (ICT). The ICT curriculum is not intended to stand alone as a course, rather to be infused in instructional activities.

Information for Parents

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- your child's teacher or school
- Curriculum Summaries
- Curriculum Handbooks
- Programs of Study on the Alberta Learning Web site.

How Can I Help My Child At Home?

Show interest in school activities by:

- asking questions
- helping with homework and projects
- setting aside time and a place for your child to complete homework
- reading to and with your child.

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Schooling in Alberta

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Teachers use the curriculum to plan learning activities that meet their students' needs and abilities. They regularly assess student progress, reporting to parents, students and administrators.

Students write provincial achievement tests in grades 3, 6 and 9.

Languages Other than English

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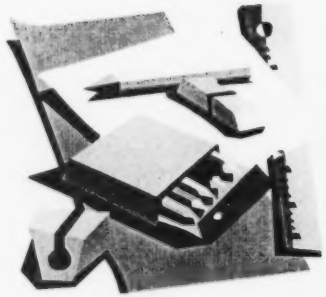
CURRICULUM SUMMARY

Grade One

2003–2004



Alberta
LEARNING

GRADE 1 AT-A-GLANCE

HEALTH AND LIFE SKILLS

Relationship Choices
- recognize and demonstrate various ways to express feelings.

Life Learning Choices
- define a goal, and recognize that setting goals helps accomplish tasks.

Wellness Choices
- demonstrate positive hygiene and health care habits.

ENGLISH LANGUAGE ARTS

Comprehend various kinds of texts
- write and tell brief narratives about own ideas and stories
- identify high frequency words by sight
- read aloud after rehearsal.

Manage ideas and information
- connect information from various texts
- follow spoken directions for gathering ideas and information
- find and categorize information.

Communicate clearly
- print legibly, left to right, using lines on a page
- explore keyboard skills
- write simple statement showing awareness of capital letters and periods.

Respect and support others
- listen to the ideas of others
- take turns sharing ideas and information
- work in partnerships and groups.

Explore thoughts and ideas
- make observations about activities and experiences depicted in texts
- experiment with different ways of looking at stories and ideas
- read and write with others.

PHYSICAL EDUCATION

Benefits Health
- learn about nutrition and exercise.

Activity
- Dance
- Games
- Types of gymnastics
- Individual activities
- Activities in alternative environments.

Cooperation
- learn and play by the rules.

Do it Daily...for Life!
- play student-created games.

SCIENCE

Seasonal Changes

Creating Colour

Senses

Building Things

Needs of Animals and Plants

SOCIAL STUDIES

My Family

My School

Other Canadian Families

ART

Depiction

Reflection

Expression

Composition

OPTIONAL SUBJECT AREAS

Languages Other than English

Drama

MATHEMATICS

Number Concepts and Operations
- recognize and work with whole numbers from 0 to 100
- explore halves
- add/subtract to 18
- read number words to 10.

Shape and Space
- estimate, measure and compare using whole numbers
- explore the properties of 2-D shapes and 3-D objects
- estimate and order objects by length, height and distance around.

Statistics and Probability
- collect, organize and describe data based on first-hand observation
- describe concepts of chance and chance events in ordinary language
- predict using never, sometimes and always.

Patterns and Relations
- identify, create and compare patterns arising from their daily experiences
- begin to recognize patterns in their environment.

SUPPORTS FOR LEARNING

Distance Learning

Early Literacy

English as a Second Language (ESL)

Special Needs

MUSIC

Melody

Form

Harmony

Expression

Rhythm

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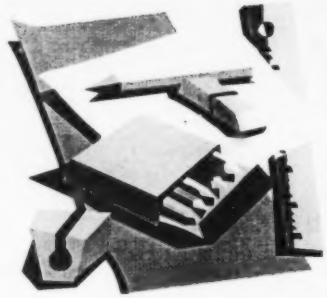
CURRICULUM SUMMARY

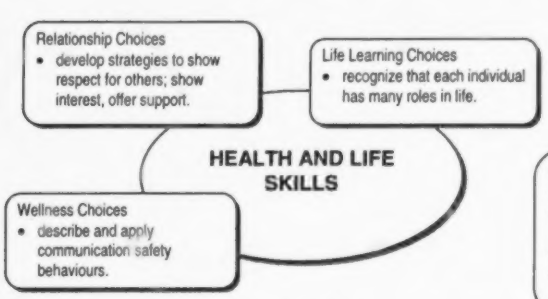
Grade Two

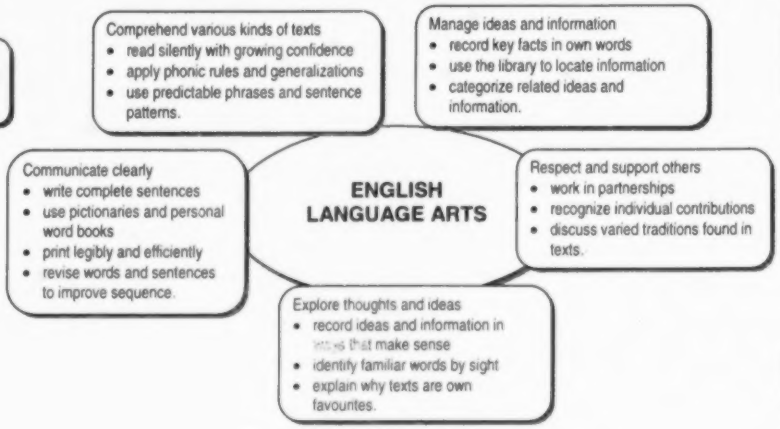
2003–2004

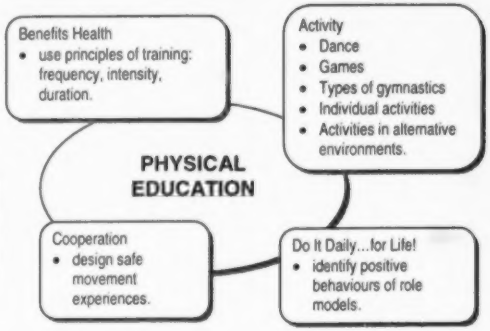


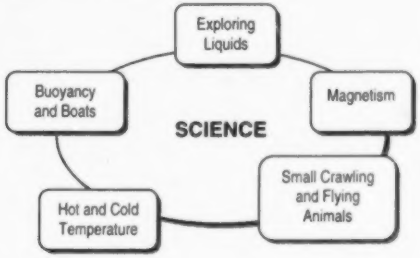
Alberta LEARNING

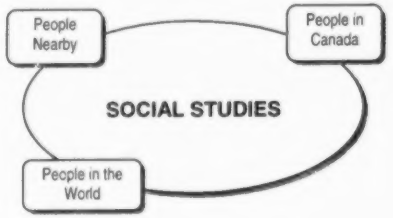
GRADE 2 AT-A-GLANCE

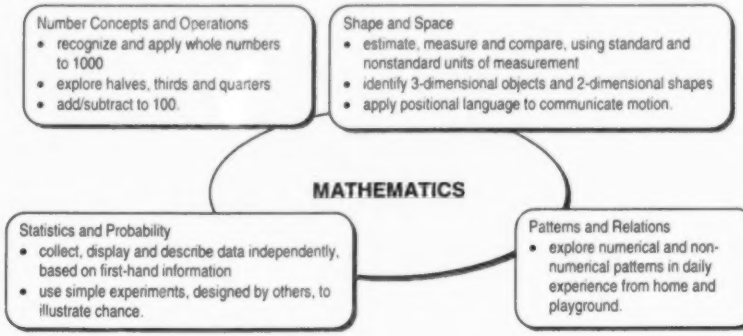

Relationship Choices
• develop strategies to show respect for others; show interest, offer support.
Life Learning Choices
• recognize that each individual has many roles in life.
HEALTH AND LIFE SKILLS
Wellness Choices
• describe and apply communication safety behaviours.

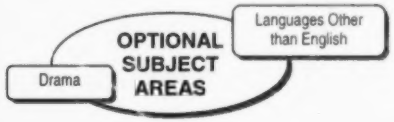

Comprehend various kinds of texts
• read silently with growing confidence
• apply phonic rules and generalizations
• use predictable phrases and sentence patterns.
Manage ideas and information
• record key facts in own words
• use the library to locate information
• categorize related ideas and information.
Communicate clearly
• write complete sentences
• use pictionaries and personal word books
• print legibly and efficiently
• revise words and sentences to improve sequence.
ENGLISH LANGUAGE ARTS
Respect and support others
• work in partnerships
• recognize individual contributions
• discuss varied traditions found in texts.
Explore thoughts and ideas
• record ideas and information in ways that make sense
• identify familiar words by sight
• explain why texts are own favourites.

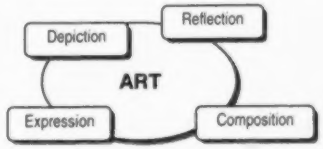


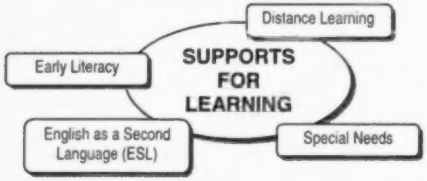


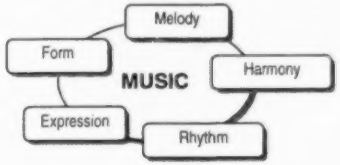



Number Concepts and Operations
• recognize and apply whole numbers to 1000
• explore halves, thirds and quarters
• add/subtract to 100.
Shape and Space
• estimate, measure and compare, using standard and nonstandard units of measurement
• identify 3-dimensional objects and 2-dimensional shapes
• apply positional language to communicate motion.
MATHEMATICS
Statistics and Probability
• collect, display and describe data independently, based on first-hand information
• use simple experiments, designed by others, to illustrate chance.
Patterns and Relations
• explore numerical and non-numerical patterns in daily experience from home and playground.









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Information for Parents

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- Curriculum Summaries
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How Can I Help My Child At Home?

Show interest in school activities by:

- asking questions
- helping with homework and projects
- setting aside time and a place for your child to complete homework
- reading to and with your child.

Use Alberta Learning and other resources produced for parents, such as

- **The Parent Advantage**—*Tips and strategies for helping with homework in grades 1 through 9.*
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Teachers use the curriculum to plan learning activities that meet their students' needs and abilities. They regularly assess student progress, reporting to parents, students and administrators.

Provincial Achievement Tests

As well as being assessed by their teachers, students write provincial achievement tests in grades 3, 6 and 9. Grade 3 students write tests in English language arts and mathematics. Parents can obtain information on the tests and their child's test results from their child's school.

Languages Other than English

- Blackfoot
- Cree
- French
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CURRICULUM SUMMARY

Grade Three

2003–2004

Alberta
LEARNING

GRADE 3 AT-A-GLANCE

HEALTH AND LIFE SKILLS

- **Relationship Choices**
  - demonstrate safe and appropriate ways for sharing and/or expressing feelings.
- **Life Learning Choices**
  - develop and demonstrate test-taking skills.
- **Wellness Choices**
  - identify strategies to avoid being bullied.

ENGLISH LANGUAGE ARTS

- **Comprehend various kinds of texts**
  - use grammatical knowledge to predict words and sentence structures
  - read silently with confidence/accuracy
  - summarize the main idea of texts.
- **Manage ideas and information**
  - identify main ideas and details in texts
  - use text features to access information
  - put ideas and information into short paragraphs.
- **Communicate clearly**
  - begin to learn cursive writing
  - edit for complete and incomplete sentences
  - use keyboarding skills
  - identify and use a variety of sentence types.
- **Respect and support others**
  - demonstrate respect for ideas and abilities of others
  - work cooperatively in groups
  - contribute ideas and information.
- **Explore thoughts and ideas**
  - explain new concepts in own words
  - choose the appropriate oral or written forms to communicate
  - relate own ideas/perspectives to new understandings.

PHYSICAL EDUCATION

- **Benefits Health**
  - understand interaction of nutrition, fitness and physical activity.
- **Activity**
  - Dance
  - Games
  - Types of gymnastics
  - Individual activities
  - Activities in alternative environments.
- **Cooperation**
  - describe and practise leadership and followership skills.
- **Do It Daily...for Life!**
  - develop personal plan encouraging participation.

SCIENCE

- Testing Materials and Designs
- Rocks and Minerals
- Hearing and Sound
- Animal Life Cycles
- Building with a Variety of Materials

SOCIAL STUDIES

- Communities Need Each Other
- Special Communities
- My Community in the Past, Present and Future

OPTIONAL SUBJECT AREAS

- Languages Other than English
- Drama

MATHEMATICS

- **Number Concepts and Operations**
  - recognize and work with whole numbers 0 to 1000
  - explore fifths and tenths
  - apply arithmetic operations to whole numbers.
- **Shape and Space**
  - estimate, measure and compare using whole numbers and standard measurement units
  - investigate 3-dimensional objects, 2-dimensional shapes
  - describe relative positions of objects in one dimension.
- **Statistics and Probability**
  - collect first- and second-hand data
  - display data in more than one way
  - interpret data to make predictions
  - use simple probability experiments.
- **Patterns and Relations**
  - investigate rules for numerical and non-numerical patterns, such as those found in the home
  - use the rules to make predictions.

ART

- Depiction
- Reflection
- Expression
- Composition

SUPPORTS FOR LEARNING

- Distance Learning
- English as a Second Language (ESL)
- Special Needs

MUSIC

- Melody
- Form
- Harmony
- Expression
- Rhythm

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  E-mail: abs@gov.ab.ca

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CURRICULUM SUMMARY

Grade Four

2003–2004

Alberta
LEARNING

GRADE 4 AT-A-GLANCE

HEALTH AND LIFE SKILLS

- **Relationship Choices**
  - identify and use short-term strategies for managing feelings.
- **Life Learning Choices**
  - develop and apply skills for personal organization/study.
- **Wellness Choices**
  - understand links between physical activity, emotional wellness, social wellness.

ENGLISH LANGUAGE ARTS

- **Comprehend various kinds of texts**
  - create narratives from own experiences
  - use texts from various cultural traditions
  - use junior and electronic dictionaries, and computer spell-check functions
  - produce texts that follow a logical sequence.
- **Manage ideas and information**
  - make use of organizational patterns in texts
  - do research using varied resources
  - communicate with reports, talks, posters
  - use key words, phrases and images.
- **Communicate clearly**
  - use cursive writing legibly
  - use special features of software
  - use phonic knowledge and skills in spelling
  - present ideas/information on a topic of interest.
- **Respect and support others**
  - experience texts from different cultures and traditions
  - use brainstorming, summarizing and reporting in group projects.
- **Explore thoughts and ideas**
  - identify other perspectives by exploring texts
  - extend sight vocabulary
  - use talk, notes and personal writing to record and reflect on ideas.

PHYSICAL EDUCATION

- **Benefits Health**
  - discuss the effects of performance-enhancing substances on body type.
- **Activity**
  - Dance
  - Games
  - Types of gymnastics
  - individual activities
  - Activities in alternative environments.
- **Cooperation**
  - demonstrate etiquette and fair play.
- **Do It Daily...for Life!**
  - evaluate different ways to achieve an activity goal.

SCIENCE

- Light and Shadows
- Building Devices and Vehicles that Move
- Plant Growth and Changes
- Wheels and Levers
- Waste and Our World

SOCIAL STUDIES

- Alberta: Its Geography and People
- Alberta: Its People in History
- Alberta: A Comparative Study with Quebec

MATHEMATICS

- **Number Concepts and Operations**
  - work with whole numbers 0 to 10 000
  - explore proper fractions
  - add/subtract using decimals
  - use appropriate calculation strategy/technology.
- **Shape and Space**
  - estimate/measure/compare, using decimal numbers and standard measurement units
  - describe 3-dimensional objects/2-dimensional shapes, using a mathematical vocabulary
  - use numbers and direction words to describe the relative positions of objects.
- **Statistics and Probability**
  - collect first- and second-hand data
  - assess and validate the data collection process and graph the data
  - design and use simple probability experiments.
- **Patterns and Relations**
  - investigate numerical and non-numerical patterns
  - identify rules that apply to, and predictions that can be made from, patterns.

ART

- Depiction
- Reflection
- Expression
- Composition

OPTIONAL SUBJECT AREAS

- Languages Other than English
- Drama

MUSIC

- Melody
- Harmony
- Rhythm
- Expression
- Form

SUPPORTS FOR LEARNING

- Distance Learning
- English as a Second Language (ESL)
- Special Needs

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Information for Parents

Parents can access information about the curriculum and learning resources in a number of ways:

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- Curriculum Summaries
- Curriculum Handbooks
- Programs of Study on the Alberta Learning Web site.

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Show interest in school activities by:

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- helping with homework and projects
- setting aside time and a place for your child to complete homework
- reading to and with your child.

Use Alberta Learning and other resources produced for parents, such as

- **The Parent Advantage**—*Tips and strategies for helping with homework in grades 1 through 9.*
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Students write provincial achievement tests in grades 3, 6 and 9.

Languages Other than English

- Blackfoot
- Cree
- French
- Spanish
- Ukrainian
- Other

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CURRICULUM SUMMARY

Grade Five

2003–2004

Alberta
LEARNING

GRADE 5 AT-A-GLANCE

HEALTH AND LIFE SKILLS

Wellness Choices
- assess the importance of regular hygiene practices during adolescence.

Life Learning Choices
- identify and implement effective time management plan.

Relationship Choices
- identify and use long-term strategies for managing feelings.

ENGLISH LANGUAGE ARTS

Comprehend various kinds of texts
- use phonics, sight vocabulary and structure to read unfamiliar words
- use dictionaries/glossaries to confirm spellings
- experiment with words and sentence patterns
- identify the main problem or conflict in texts.

Manage ideas and information
- summarize important ideas in texts, and give opinions about them
- add, delete, combine ideas to communicate effectively
- use clear organizational structures.

Communicate clearly
- develop rules to evaluate effectiveness of texts
- revise and organize to clarify meaning of own texts
- write in a legible, consistent style
- apply word processing skills.

Respect and support others
- compare own and others' responses to texts
- use language appropriate to context
- offer constructive feedback to group.

Explore thoughts and ideas
- seek viewpoints of others to build understanding
- set personal goals to improve language learning and use
- use talk, notes and personal writing to explore own and others' ideas.

PHYSICAL EDUCATION

Activity
- Dance
- Games
- Types of gymnastics
- Individual activities
- Activities in alternative environments.

Benefits Health
- design and implement a personal fitness plan.

Cooperation
- practise cooperative skills in physical activity.

Do It Daily…for Life!
- evaluate community programs for active lifestyles.

SCIENCE

- Classroom Chemistry
- Weather Watch
- Mechanisms Using Electricity
- Electricity and Magnetism
- Wetland Ecosystems

SOCIAL STUDIES

- Canada: Its Geography and People
- Early Canada: Exploration and Settlement
- Canada's Links with Other Countries

OPTIONAL SUBJECT AREAS

- Languages Other than English
- Drama

MATHEMATICS

Number Concepts and Operations
- develop a sense for whole numbers 0 to 100 000
- explore proper fractions and decimals
- use arithmetic operations on whole numbers and decimals.

Shape and Space
- use measurement concepts to solve problems in everyday contexts
- use visualization of objects/shapes to solve spatial relations problems
- describe motion in terms of a slide, a turn or a flip
- use coordinates to describe positions.

Statistics and Probability
- develop/implement a plan for collection, display and interpretation of data to answer a question
- predict outcomes, conduct experiments and communicate the probability of single events.

Patterns and Relations
- construct, extend and summarize patterns, including those found in nature
- use rules, charts, mental mathematics and calculators.

ART

- Depiction
- Reflection
- Expression
- Composition

SUPPORTS FOR LEARNING

- Distance Learning
- English as a Second Language (ESL)
- Special Needs

MUSIC

- Melody
- Harmony
- Form
- Expression
- Rhythm

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- helping with homework and projects
- setting aside time and a place for your child to complete homework
- reading to and with your child.

Use Alberta Learning and other resources produced for parents, such as

- **The Parent Advantage**—*Tips and strategies for helping with homework in grades 1 through 9.*
- **Working Together in Mathematics Education**—*Ways parents can support student learning in mathematics.* http://www.learning.gov.ab.ca/parents/mathprbk.pdf
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Schooling in Alberta

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Teachers use the curriculum to plan learning activities that meet their students' needs and abilities. They regularly assess student progress, reporting to parents, students and administrators.

Provincial Achievement Tests

As well as being assessed by their teachers, students write provincial achievement tests in grades 3, 6 and 9. Grade 6 students write tests in English language arts, mathematics, science and social studies. Parents can obtain information on the tests and their child's test results from their child's school.

Languages Other than English

- Blackfoot
- Cree
- French
- Spanish
- Ukrainian
- Other

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CURRICULUM SUMMARY

Grade Six

2003–2004

Alberta
LEARNING

GRADE 6 AT-A-GLANCE

HEALTH AND LIFE SKILLS

Relationship Choices
- develop personal strategies for dealing with stress/change.

Life Learning Choices
- expand strategies for effective personal management.

Wellness Choices
- evaluate the need for balance and variety in daily activities.

ENGLISH LANGUAGE ARTS

Comprehend various kinds of texts
- experiment with sentence patterns, imagery
- create texts with plot, setting and character
- use reference materials to verify word usage
- identify and use themes encountered in texts.

Manage ideas and information
- use note taking to focus ideas, topics
- use bibliographies, thesauri, electronic searches and technology in research
- establish own goals for enhancing research skills.

Communicate clearly
- revise to provide focus and eliminate inessentials
- present with controlled voice, pacing and gestures
- write legibly, at a pace appropriate to context.

Respect and support others
- demonstrate respect by choosing appropriate language and tone
- work collaboratively to revise and enhance various texts.

Explore thoughts and ideas
- explore techniques in various texts
- assess personal language use to enhance language learning
- share personal responses and develop interpretations.

PHYSICAL EDUCATION

Activity
- Dance
- Games
- Types of gymnastics
- Individual activities
- Activities in alternative environments.

Benefits Health
- discuss the effects of performance-enhancing substances.

Cooperation
- practise leadership and followership skills in physical activities.

Do It Daily...for Life!
- choose different ways to achieve activity goals.

SCIENCE

Sky Science

Air and Aerodynamics

Trees and Forests

Flight

Evidence and Investigation

SOCIAL STUDIES

Local Government

Greece: An Ancient Civilization

China: A Pacific Rim Nation

OPTIONAL SUBJECT AREAS

Languages Other than English

Drama

MATHEMATICS

Number Concepts and Operations
- develop a number sense for decimals/common fractions
- explore integers
- use a calculator, and apply arithmetic operations in solving problems.

Shape and Space
- solve problems involving perimeter, area, surface area, volume, and angle measurement
- use visualization and symmetry to solve problems
- create patterns and designs that incorporate symmetry, tessellations, translations and reflections.

Statistics and Probability
- develop and implement a plan for collection, display and analysis of data gathered from appropriate samples
- use numbers to communicate the probability of single events from experiments and models.

Patterns and Relations
- use relationships to summarize, generalize and extend patterns
- use representations of equality and operations on equality to solve problems.

ART

Depiction

Reflection

Expression

Composition

SUPPORTS FOR LEARNING

Distance Learning

English as a Second Language (ESL)

Special Needs

MUSIC

Melody

Form

Harmony

Expression

Rhythm

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Teachers use the curriculum to plan learning activities that meet their students' needs and abilities. They regularly assess student progress, reporting to parents, students and administrators.

Students write provincial achievement tests in grades 3, 6 and 9.

Languages Other than English

- Blackfoot
- Cree
- French
- German
- Spanish
- Ukrainian
- Other

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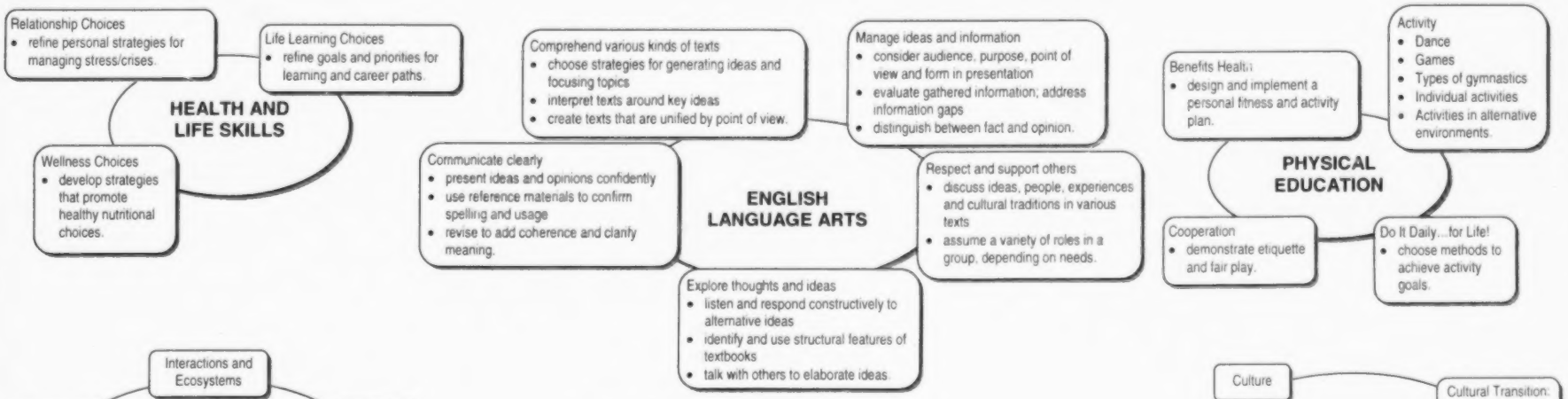
CURRICULUM SUMMARY

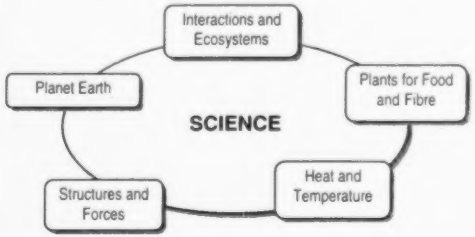
Grade Seven

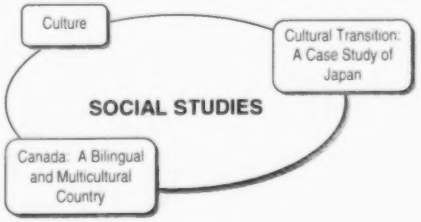
2003–2004

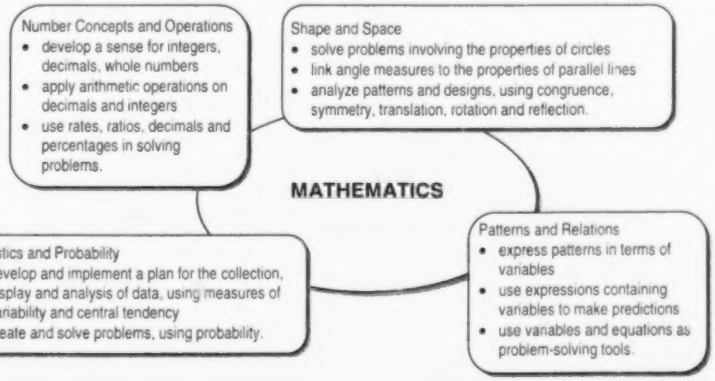
Alberta
LEARNING

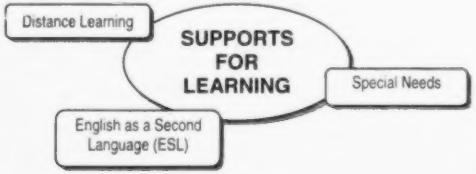
GRADE 7 AT-A-GLANCE


HEALTH AND LIFE SKILLS
Relationship Choices
• refine personal strategies for managing stress/crises.
Life Learning Choices
• refine goals and priorities for learning and career paths.
Wellness Choices
• develop strategies that promote healthy nutritional choices.
ENGLISH LANGUAGE ARTS
Comprehend various kinds of texts
• choose strategies for generating ideas and focusing topics
• interpret texts around key ideas
• create texts that are unified by point of view.
Manage ideas and information
• consider audience, purpose, point of view and form in presentation
• evaluate gathered information; address information gaps
• distinguish between fact and opinion.
Communicate clearly
• present ideas and opinions confidently
• use reference materials to confirm spelling and usage
• revise to add coherence and clarity meaning.
Respect and support others
• discuss ideas, people, experiences and cultural traditions in various texts
• assume a variety of roles in a group, depending on needs.
Explore thoughts and ideas
• listen and respond constructively to alternative ideas
• identify and use structural features of textbooks
• talk with others to elaborate ideas.
PHYSICAL EDUCATION
Benefits Health
• design and implement a personal fitness and activity plan.
Activity
• Dance
• Games
• Types of gymnastics
• Individual activities
• Activities in alternative environments.
Cooperation
• demonstrate etiquette and fair play.
Do It Daily...for Life!
• choose methods to achieve activity goals.






MATHEMATICS
Number Concepts and Operations
• develop a sense for integers, decimals, whole numbers
• apply arithmetic operations on decimals and integers
• use rates, ratios, decimals and percentages in solving problems.
Shape and Space
• solve problems involving the properties of circles
• link angle measures to the properties of parallel lines
• analyze patterns and designs, using congruence, symmetry, translation, rotation and reflection.
Statistics and Probability
• develop and implement a plan for the collection, display and analysis of data, using measures of variability and central tendency
• create and solve problems, using probability.
Patterns and Relations
• express patterns in terms of variables
• use expressions containing variables to make predictions
• use variables and equations as problem-solving tools.



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Languages Other than English

- Blackfoot
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- French
- German
- Spanish
- Ukrainian
- Other

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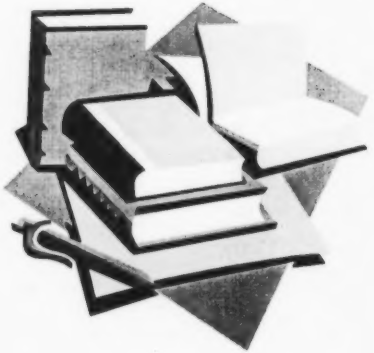
CURRICULUM SUMMARY

Grade Eight

2003–2004



Alberta
LEARNING

GRADE 8 AT-A-GLANCE

HEALTH AND LIFE SKILLS

Relationship Choices
- analyze skills needed to maintain individuality within a group.

Life Learning Choices
- investigate programs related to potential careers.

Wellness Choices
- adopt goals that reflect healthy eating.

ENGLISH LANGUAGE ARTS

Comprehend various kinds of texts
- use a thesaurus to extend vocabulary
- explore choices made in planning various texts
- create texts related to current life issues
- identify creative uses of language and visuals in popular culture.

Manage ideas and information
- revise to enhance sentence variety
- make notes in point form, summarizing major ideas
- experiment with several ways to focus a topic.

Communicate clearly
- vary handwriting style and pace
- use verb tenses consistently
- present information to achieve a particular purpose
- experiment with voice, figurative language, sentence patterns.

Respect and support others
- examine the ideas of others to broaden perspective
- use inclusive language and actions that demonstrate respect
- organize and complete tasks cooperatively.

Explore thoughts and ideas
- seek out and consider diverse ideas, opinions and experiences
- pursue personal interest in specific genres
- identify and use visual and textual cues in reference materials.

PHYSICAL EDUCATION

Benefits Health
- use principles of training: frequency, intensity, duration.

Activity
- Dance
- Games
- Types of gymnastics
- Individual activities
- Activities in alternative environments.

Cooperation
- identify the positive behaviours of role models.

Do It Daily...for Life!
- develop a personal activity plan.

SCIENCE

The Mix and Flow of Matter

Freshwater and Saltwater Systems

Cells and Systems

Light and Optical Systems

Mechanical Systems

SOCIAL STUDIES

South America: A Case Study of Brazil

Geography of Canada and the United States

Canada: History to the Twentieth Century

SUPPORTS FOR LEARNING

Distance Learning

Special Needs

English as a Second Language (ESL)

Integrated Occupational Program (IOP)

MATHEMATICS

Number Concepts and Operations
- develop a sense for rational numbers, integers, common fractions, whole numbers
- apply arithmetic operations on rational numbers
- apply the concepts of rate, ratio, percentage and proportion.

Shape and Space
- apply indirect measurement procedures
- solve problems involving area, perimeter, surface area and volume
- use the properties of scaling, proportion and networks to analyze design problems
- apply coordinate geometry and pattern recognition.

Statistics and Probability
- collect, display and analyze data, using technology as required
- evaluate and use measures of central tendency and variability
- compare theoretical and experimental probability.

Patterns and Relations
- use patterns, variables and expressions, together with their graphs, to solve problems
- solve and verify one-step and two-step linear equations.

OPTIONAL COURSES

Languages Other than English

Ethics

Career and Technology Studies

Environmental and Outdoor Education

Locally Developed Courses

Fine and Performing Arts: Art, Drama and Music

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Information for Parents

Parents can access information about the curriculum and learning resources in a number of ways:

- your child's teacher or school
- Curriculum Summaries
- Curriculum Handbooks
- Programs of Study on the Alberta Learning Web site.

How Can I Help My Child At Home?

Show interest in school activities by:

- asking questions
- helping with homework and projects
- setting aside time and a place for your child to complete homework.

Use Alberta Learning and other resources produced for parents, such as

- **The Parent Advantage**—*Tips and strategies for helping with homework in grades 1 through 9.*
- **Make School Work for You**—*Helping junior and senior high school students become more successful learners.*
- **Working Together in Mathematics Education**—*Ways parents can support student learning in mathematics.* http://www.learning.gov.ab.ca/parents/mathprbk.pdf
- **LearnAlberta.ca Web site**—*Online multimedia learning resources that directly relate to the Alberta programs of study.* http://www.learnalberta.ca
- **TELUS 2Learn Web site**—*An education–business partnership that provides Internet inservice, support and mentorship for Alberta teachers.* http://www.2learn.ca

Schooling in Alberta

Curriculum describes what students are expected to learn. Alberta Learning develops the curriculum in consultation with teachers, administrators, parents, representatives from post-secondary institutions, and professional and community groups.

Teachers use the curriculum to plan learning activities that meet their students' needs and abilities. They regularly assess student progress, reporting to parents, students and administrators.

Provincial Achievement Tests

As well as being assessed by their teachers, students write provincial achievement tests in grades 3, 6 and 9. Grade 9 students write tests in English language arts, mathematics, science and social studies. Parents can obtain information on the tests and their child's test results from their child's school.

Languages Other than English

- Blackfoot
- Cree
- French
- German
- Spanish
- Ukrainian
- Other

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Where Can I Get More Information?

- The Alberta Learning Web site
  http://www.learning.gov.ab.ca
- Aboriginal Services Branch
  Telephone: 780–415–9300
  Fax: 780–415–9306
  E-mail: abs@gov.ab.ca
- Curriculum Branch
  Telephone: 780–427–2984
  Fax: 780-422–3745
  E-mail: curric.contact@learning.gov.ab.ca
- French Language Services Branch
  Telephone: 780–427–2940
  Fax: 780–422–1947
  E-mail: LSB@learning.gov.ab.ca
- Learner Assessment Branch
  Telephone: 780–427–0010
  Fax: 780–422–4200
  E-mail: assess.contact@learning.gov.ab.ca
- Learning Resources Centre
  Telephone: 780–427–5775
  Fax: 780–422–9750
  Web site: http://www.lrc.learning.gov.ab.ca
- Special Programs Branch
  Telephone: 780–422–6326
  Fax: 780–422–2039
  E-mail: SpecialEd@learning.gov.ab.ca

CURRICULUM SUMMARY

Grade Nine

2003–2004

Alberta LEARNING

GRADE 9 AT-A-GLANCE

HEALTH AND LIFE SKILLS

- **Relationship Choices**
  - refine personal strategies for managing stress/crises.
- **Life Learning Choices**
  - refine personal goals and priorities relevant to learning and career paths.
- **Wellness Choices**
  - develop strategies to promote harm reduction/risk management.

ENGLISH LANGUAGE ARTS

- **Comprehend various kinds of texts**
  - create texts interrelating plot, setting and character
  - analyze creative uses of language and visuals in popular culture
  - consider historical context
  - preview complex texts for intent, content and structure.
- **Manage ideas and information**
  - select types and sources of information for balance
  - obtain information reflecting multiple perspectives
  - communicate ideas in a variety of texts.
- **Communicate clearly**
  - share sample treatments of a topic with peers
  - explore the derivation and use of words
  - present with a variety of media and display techniques.
- **Respect and support others**
  - analyze how texts reflect different cultures, communities
  - share responsibilities for the completion of team projects.
- **Explore thoughts and ideas**
  - express and respond to ideas on the same topic, in a variety of texts
  - explain preferences for texts by particular writers
  - examine ideas, experiences, to find patterns.

PHYSICAL EDUCATION

- **Activity**
  - Dance
  - Games
  - Types of gymnastics
  - Individual activities
  - Activities in alternative environments.
- **Benefits Health**
  - implement personal fitness/ activity plan.
- **Do It Daily...for Life!**
  - evaluate community programs that promote active lifestyles.
- **Cooperation**
  - demonstrate positive behaviours that respect self and others.

SCIENCE

- Biological Diversity
- Matter and Chemical Change
- Space Exploration
- Environmental Chemistry
- Electrical Principles and Technologies

MATHEMATICS

- **Number Concepts and Operations**
  - illustrate the structure and interrelationship of the sets of numbers
  - use scientific calculator or computer to solve problems
  - work with and perform calculations using exponents.
- **Shape and Space**
  - use trigonometry to understand the right triangle
  - solve problems involving area, perimeter, surface area and volume
  - specify conditions under which triangles may be similar or congruent
  - apply coordinate geometry and pattern recognition.
- **Statistics and Probability**
  - collect and analyze experimental results expressed in two variables
  - explain the use of probability and statistics in the solution of complex problems.
- **Patterns and Relations**
  - generalize mathematical procedures, using models
  - solve and verify linear equations and inequalities
  - study arithmetic operations from the set of rational numbers to the set of polynomials.

SOCIAL STUDIES

- Economic Growth: U.S.A.
- Economic Growth: A Case Study of the Former U.S.S.R.
- Canada: Responding to Change

SUPPORTS FOR LEARNING

- Distance Learning
- Special Needs
- English as a Second Language (ESL)
- Integrated Occupational Program (IOP)

OPTIONAL COURSES

- Career and Technology Studies
- Ethics
- Languages Other than English
- Environmental and Outdoor Education
- Locally Developed Courses
- Fine and Performing Arts: Art, Drama and Music

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Provincial Diploma Examinations

Information about diploma examinations is available at all senior high schools. As well, information is available on the Alberta Learning Web site. This site includes the *General Information Bulletin, Diploma Examinations Program*, which provides the examination schedules as well as the directives related to the diploma examinations.

Languages Other than English

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- German
- Italian
- Japanese
- Latin
- Spanish
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  Fax: 780–422–9750
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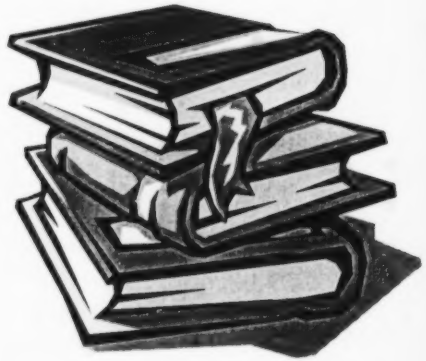
- Special Programs Branch
  Telephone: 780–422–6326
  Fax: 780–422–2039
  E-mail: SpecialEd@learning.gov.ab.ca

CURRICULUM SUMMARY

Senior High School

2003–2004



Alberta
LEARNING

SENIOR HIGH AT-A-GLANCE

CAREER AND LIFE MANAGEMENT (CALM)

Personal Choices
- apply an understanding of the emotional/psychological, intellectual, social, spiritual and physical dimensions of health in managing personal well-being.

Career and Life Choices
- develop and apply processes for managing personal, lifelong career development.

Resource Choices
- make responsible decisions in the use of finances and other resources that reflect personal values and goals and demonstrate commitment to self and others.

ENGLISH LANGUAGE ARTS

ELA10-1, 20-1, 30
- analyze, respond to and create complex texts
- identify and examine ways in which cultural and societal influences are reflected in a variety of Canadian and international texts.

ELA 10-2, 20-2, 30-2
- develop a variety of reading, comprehension and writing strategies
- respond to texts at a variety of different levels of sophistication.

ELA 16–26–36, (IOP)
- read and write for specific, concrete purposes
- speak clearly and confidently
- view and demonstrate understanding
- engage in active listening.

PHYSICAL EDUCATION 10

Activity
- Dance
- Games
- Types of gymnastics
- Individual activities
- Activities in alternative environments.

Benefits Health
- Functional Fitness
- Body Image
- Well-being.

Do It Daily…for Life!
- Effort
- Safety
- Goal Setting/Personal Challenge
- Active Living in the Community.

Cooperation
- Communication
- Fair Play
- Leadership
- Teamwork.

RELIGIOUS STUDIES

Belonging · Believing · Relating

SCIENCE

Science 20–30
- explore general science concepts, attitudes and skills
- recognize the relationships of science to technologies and society.

Science 10
- explore topics in biological, chemical, physical and earth science
- develop a foundation for all academic sciences.

Science 14–24
- explore scientific principles behind natural events and everyday technologies
- recognize the role of science in problem solving and decision making.

Science 16–26 (IOP)
- develop entry-level vocational abilities
- recognize the need for lifelong learning.

Biology 20–30
- explore the interactions of living systems with one another and their environment
- examine energy and matter exchange (20); adaptation and change (30)
- recognize the role of science in societal decision making and maintaining a sustainable environment.

Chemistry 20–30
- explore matter and its changes
- recognize the chemical principles behind natural events
- develop an awareness of the profound influence of chemistry on their lives.

Physics 20–30
- examine matter and energy, and their interactions
- recognize the physics principles behind natural events
- recognize the technology used in daily life.

SOCIAL STUDIES

Social Studies 10–20–30
- understand the roles, rights and responsibilities of citizens in a democratic society and global community
- develop complex critical and creative thinking skills, and inquiry skills.

Social Studies 13–23–33
- understand the roles, rights and responsibilities of citizens in a democratic society and global community
- develop critical and creative thinking and inquiry skills.

Social Studies 16–26 (IOP)
- relate rights, responsibilities and laws to the workplace and community
- develop critical and creative thinking skills and inquiry skills.

MATHEMATICS

Mathematics 14–24
- review and consolidate basic mathematical understandings
- acquire practical life skills.

Applied Mathematics 10–20–30
- study applications of mathematics
- apply numerical and geometrical approaches to problem solving.

Mathematics Preparation 10
- review key outcomes from junior high
- prepare for Applied Mathematics 10 or Pure Mathematics 10, or Mathematics 24.

Mathematics 16–26 (IOP)
- develop essential concepts, skills and attitudes required for responsible participation in the home, school, workplace and community.

Mathematics 31
- study advanced mathematics for entrance into some post-secondary programs.

Pure Mathematics 10–20–30
- examine and analyze mathematical theory
- apply algebraic and graphical approaches to problem solving
- use a variety of computational methods including advanced, as appropriate.

OPTIONAL COURSES

Career and Technology Studies (CTS) · Languages Other than English · Off-campus Education · Locally Developed Courses · Physical Education 20–30 · Fine and Performing Arts: Art, Drama and Music

SUPPORTS FOR LEARNING

Distance Learning · Guidance and Counselling · English as a Second Language (ESL) · Special Needs

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